Monitoring Data Record

Project Title: I-306 DB (I-85 in Durham) COE Action ID: 200020902

Stream Name: South Ellerbee Creek (Sites 2 & 13) DWQ Number: 001040
City, County and other Location Information: I-85 from W. of Broad St. to W. of Camden Ave. in Durham County
Date Construction Completed: n/a Monitoring Quarter: (1) of 4
Ecoregion: 8 digit HUC unit 03020201
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 2,684' Urban or Rural: Urban Watershed Size:
Monitoring DATA collected by: M. Green Date: 2/24/06 & 3/22/06
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Rd. Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us

Consultant Information:
Name:
Address:
Telephone Number: Email address:

Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level (1) ~~2~~ ~~3~~
Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Permit Conditions: The permittee shall visually monitor the vegetative plantings on all mitigation streambanks to access and insure complete stabilization of the mitigation stream segments. This monitoring shall include adequate visual monitoring of planted vegetation quarterly for a minimum of one year after final planting, and appropriate remedial actions (e.g., replanting, streambank grading, ect.). If within any monitoring year, bank stabilization is not acceptable as determined by the Corps of Engineers, and remedial action required by the Corps of Engineers is performed, the one year monitoring of the affected portions of the stream will begin again.

Section 1. PHOTO REFERENCE SITES
(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: A total of 29 photos were taken from 15 photo point locations. The station number given beside each photo point (PP) location is the approximate location of the stream relocation and not necessarily where the photo was taken along the stream.
Dates reference photos have been taken at this site: 2/24/06 & 3/22/06

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference:

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL
Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: The vegetation throughout South Ellerbee Creek was dormant during the 1st quarterly monitoring period. There were some stream segments that lacked woody vegetation and will need some supplemental planting in the near future. These areas will be reassessed during the next monitoring period when the growing season is in full affect.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The streambanks are stabilized throughout the most part of South Ellerbee Creek. The few problem areas that were noted during the 1st quarterly monitoring period are in the chart below and will be repaired before these stream segments are considered successful.

Date Inspected	3/22/06 PP #10 Upstream Sta. 5+400-L- LT.	3/22/06 PP #12 Upstream Sta. 6+000-L- LT.	3/22/06 PP #15 Downstream Sta. 1+240 –CONAB- LT.
Structure Type	Cross Vane		
Is water piping through or around structure?			
Head cut or down cut present?			
Bank or scour erosion present?	Yes	Yes	
Other problems noted?	Repair failed cross vane and scour around sewer line.	Old culvert footing in stream will be altered so that it is not directing water flow into left bank.	Sheet pilings will be removed from stream relocation.

NOTE: Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

South Ellerbee Creek

SITE 2

PP #1 Upstream (STA. 4+160-L- LT.)

PP #1 Downstream (STA. 4+160-L- LT.)

PP #2 Upstream (STA. 4+160-L- LT.)

PP #2 Downstream (STA. 4+160-L- LT.)

PP #3 Upstream (STA. 4+160-L- LT.)

PP #3 Downstream (STA. 4+300-L- LT.)

February & March 2006

South Ellerbee Creek

SITE 2

PP #4 Upstream (STA. 4+440-L- LT.)

PP #4 Downstream (STA. 4+440-L- LT.)

PP #5 Upstream (STA. 4+440-L- LT.)

PP #5 Downstream (STA. 4+440-L- LT.)

PP #6 Upstream (STA. 4+620-L- LT.)

PP #6 Upstream (STA. 4+620-L- LT.)

February & March 2006

South Ellerbee Creek

SITE 2

PP #6 Downstream (STA. 4+620-L- LT.)

PP #7 Upstream (STA. 4+800-L- LT.)

PP #7 Downstream (STA. 4+800-L- LT.)

PP #8 Upstream (STA. 4+800-L- LT.)

PP #8 Downstream (STA. 4+800-L- LT.)

PP #9 Upstream (STA. 5+400-L- LT.)

February &March 2006

South Ellerbee Creek

SITE 2

PP #10 Upstream (STA. 5+400-L- LT.)

PP #10 Downstream (STA. 5+400-L- LT.)

February & March 2006

South Ellerbee Creek

SITE 13

PP #11 Upstream (STA. 6+000-L- LT.)

PP #11 Downstream (STA. 6+000-L- LT.)

PP #12 Upstream (STA. 6+000-L- LT.)

PP #12 Downstream (STA. 6+000-L- LT.)

PP #13 Upstream (STA. 1+020 –CONAB- LT.)

PP #13 Downstream (STA. 1+020 –CONAB- LT.)

February & March 2006

South Ellerbee Creek

SITE 13

PP #14Upstream (STA. 1+020 –CONAB- LT.)

PP #14 Downstream (STA. 1+020 –CONAB- LT.)

PP #15 Downstream (STA. 1+240 –CONAB- LT.)

February & March 2006